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PPLICATION NO). F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/989,875 11/20/2001		11/20/2001	Bruce A. Judson	000192C1	1495
23696	7590	08/10/2004		EXAMINER	
	n Incorpor	rated	DANIEL JR	DANIEL JR, WILLIE J	
Patents Department 5775 Morehouse Drive				ART UNIT	PAPER NUMBER
San Diego, CA 92121-1714				2686	-5
				DATE MAILED: 08/10/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Application No.	Applicant(s)					
	09/989,875	JUDSON ET AL.					
Office Action Summary	Examiner	Art Unit					
	Willie J. Daniel, Jr.	2686					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tin bly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on							
•	s action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ☐ Claim(s) 1-21 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-21 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration.						
Application Papers							
9) The specification is objected to by the Examin 10) The drawing(s) filed on 20 November 2001 is/ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	are: a) □ accepted or b) ☑ objected or b) ☑ objected drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. Its have been received in Applicat Ority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:						

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DETAILED ACTION

Drawings

- 1. The drawings are objected to because of Form PTO-948 (see sections 10 and 12). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
- 2. Figure 1 (see pg. 2, lines 24-25; pg. 4, [0011]) should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference characters "100, 110, 120, 130, 140" has been used to designate both "steps of Fig. 1" and "components of Fig. 4". Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any

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portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities: Application No.
for related application is not included on pg. 1, line 10.
 Appropriate correction is required.

Double Patenting

5. Claims 1-21 are directed to the same invention as that of claims 1-21 of commonly assigned Application No. - 09/998,860 (hereinafter '860). The issue of priority under 35 U.S.C. 102(g) and possibly 35 U.S.C. 102(f) of this single invention must be resolved.

Since the U.S. Patent and Trademark Office normally will not institute an interference between applications or a patent and an application of common ownership (see MPEP § 2302), the assignee is required to state which entity is the prior inventor of the conflicting subject matter. A terminal disclaimer has no effect in this situation since the basis for refusing more than one patent is priority of invention under 35 U.S.C. 102(f) or (g) and not an extension of monopoly.

Failure to comply with this requirement will result in a holding of abandonment of this application.

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Regarding Claim 1 and dependents 2-5, these claims have similar and/or exact limitations as the claims 1-5 (see '860).

Regarding **Claim** 6 and dependents 7-14, these claims have similar and/or exact limitations as the claims 6-14 (see '860).

Regarding Claim 15 and dependents 16-20, these claims have similar and/or exact limitations as the claims 15-20 (see '860).

Regarding Claim 21, the claim has similar and/or exact limitations as the claims 21 (see '860).

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Hilsenrath et al. (hereinafter Hilsenrath) (US 6,026,304).

Regarding Claim 1, Hilsenrath discloses of a cellular telephone (74) which reads on the claimed "mobile transceiver" (see col. 6, lines 6-9; Fig. 4) having:

a system for generation of location information which reads on the claimed "position information" (see col. 6, lines 6-9; col. 9, lines 10-17; Fig. 4), where the system would be inherent, and

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means (74) for transmitting said position information (see col. 6, lines 6-9; col. 9, lines 10-17; Fig. 4).

Regarding **Claim 2**, Hilsenrath discloses of the invention of claim 1 wherein said system for generation of position information includes means (74) for receiving a signal from a GPS satellite (90) which reads on the claimed "satellite" (see col. 9, lines 5-17; Fig. 4).

Regarding Claim 3, Hilsenrath discloses of the invention of claim 2 wherein said system for generation of position information includes means (74) for receiving a Global Positioning System signal (see col. 9, lines 5-17; Fig. 4).

Regarding **Claim 4**, Hilsenrath discloses of the invention of claim 1 wherein said system for generation of position information includes means (74) for receiving a signal from an GPS satellite (90) which reads on the claimed "airborne platform" (see col. 9, lines 5-17).

Regarding Claim 5, Hilsenrath discloses of the invention of claim 1 wherein said means (74) for transmitting said position information includes a cellular telephone (74) which reads on the claimed "CDMA transmitter" (see col. 6, lines 6-9; col. 9, lines 10-17;

Fig. 4).

Regarding Claim 6, Hilsenrath discloses of a base station (76) having (see Figs. 4, 10A-11B):

antenna array (80) which reads on the claimed "means" for receiving position information from a cellular telephone (74) which reads on the claimed "remote unit" and providing a received position signal in response thereto (see col. 6, lines 6-18; col. 9, lines 10-17,20-23; Figs. 10A-11B) and

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means (76) for directing a beam in response to said received position signal (see col. 9, lines 10-17,20-25; col. 13, lines 15-23; col. 13, line 61 - col. 14, line 8; Fig. 7).

Regarding Claim 7, Hilsenrath discloses of the invention of claim 6 wherein said position information is provided at least in part by a Global Positioning System (see col. 9, lines 6-8; Fig. 4).

Regarding Claim 8, Hilsenrath discloses of the invention of claim 7 wherein said remote unit (74) is a cellular telephone which reads on the claimed "mobile transceiver" (see col. 6, lines 6-9; Fig. 4).

Regarding Claim 9, Hilsenrath discloses of the invention of claim 8 wherein said mobile transceiver (74) is a CDMA transceiver (see col. 6, lines 6-9,50-57; Fig. 4).

Regarding Claim 10, Hilsenrath discloses of the invention of claim 8 wherein said beam is directed to said transceiver (74) (see col. 9, lines 10-17,20-25; col. 13, lines 15-23; col. 13, line 61 - col. 14, line 8; Figs. 4, 7).

Regarding Claim 11, Hilsenrath discloses of the invention of claim 6 wherein said means (76) for directing a beam includes an antenna array (80) which reads on the claimed "smart antenna" (see col. 6, lines 12-18; col. 9, lines 10-17,20-25; col. 13, lines 15-23; col. 13, line 61 - col. 14, line 8; Figs. 4, 7, 10A, 11A), where the beam is directed from the controlling of the antenna array by the signal processor and base station in which the smart antenna would be inherent.

Regarding Claim 12, Hilsenrath discloses of the invention of claim 11 wherein said means (76) for directing a beam includes an antenna array (80) (see col. 6, lines 12-18; col. 9, lines 10-17,20-25; col. 13, lines 15-23; col. 13, line 61 - col. 14, line 8; Figs. 4, 7, 10A, 11A).

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Regarding Claim 13, Hilsenrath discloses of the invention of claim 12 further including means (76) for driving said array to output a directed beam (see col. 6, lines 12-18; col. 9, lines 10-17,20-25; col. 13, lines 15-23; col. 13, line 61 - col. 14, line 8; Figs. 4, 7, 10A, 11A).

Regarding Claim 14, Hilsenrath discloses of the invention of claim 13 wherein said means (76) for driving includes a beamforming network (see col. 6, lines 12-18; col. 7, line 65 - col. 8, line 6; col. 9, lines 10-17,20-25; col. 13, lines 15-23; col. 13, line 61 - col. 14, line 8; Figs. 4, 7, 10A, 11A).

Regarding **Claim 15**, Hilsenrath discloses of a cellular telephone network which reads on the claimed "communications system" (see col. 5, line 65 - col. 6, line 5) comprising:

a mobile transceiver (74) (see Fig. 4) having:

a GPS system (90) for generation of position information (see col. 6, lines 6-9; col. 9, lines 6-17; Fig. 4) and

means (74) for transmitting said position information (see col. 6, lines 6-9; col. 9, lines 10-17; Fig. 4) and

a base station (76) (see Figs. 4, 10A) having:

means (80) for receiving said position information and providing a received position signal in response thereto (see col. 6, lines 6-18; col. 9, lines 10-17,20-23; Figs. 10A-11B) and

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signal processor which reads on the claimed "means" located at said base station for directing a beam in response to said received position signal (see col. 9, lines 10-17,20-25; col. 13, lines 15-23; col. 13, line 61 - col. 14, line 8; Fig. 7).

Regarding Claim 16, Hilsenrath discloses of the invention of claim 15 wherein said GPS system (90) is GPS assisted (see col. 9, lines 5-12; Fig. 4).

Regarding Claim 17, Hilsenrath discloses of the invention of claim 15 wherein said means (76) for directing a beam includes a smart antenna (80) (see col. 6, lines 12-18; col. 9, lines 10-17,20-25; col. 13, lines 15-23; col. 13, line 61 - col. 14, line 8; Figs. 4, 7, 10A, 11A), where the beam is directed from the controlling of the antenna array by the signal processor and base station in which the smart antenna would be inherent.

Regarding Claim 18, Hilsenrath discloses of the invention of claim 17 wherein said means (76) for directing a beam includes an antenna array (80) (see col. 6, lines 12-18; col. 9, lines 10-17,20-25; col. 13, lines 15-23; col. 13, line 61 - col. 14, line 8; Figs. 4, 7, 10A, 11A).

Regarding Claim 19, Hilsenrath discloses of the invention of claim 18 further including means (76) for driving said array to output a directed beam (see col. 6, lines 12-18; col. 9, lines 10-17,20-25; col. 13, lines 15-23; col. 13, line 61 - col. 14, line 8; Figs. 4, 7, 10A, 11A).

Regarding Claim 20, Hilsenrath discloses of the invention of claim 19 wherein said means (76) for driving includes a beamforming network (see col. 6, lines 12-18; col. 7, line 65 - col. 8, line 6; col. 9, lines 10-17,20-25; col. 13, lines 15-23; col. 13, line 61 - col. 14, line 8; Figs. 4, 7, 10A, 11A).

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Regarding Claim 21, Hilsenrath discloses of a method for effecting directional cellular communications including the steps of:

generating position information at a mobile transceiver (74) (see col. 6, lines 6-9; col. 9, lines 6-17; Fig. 4);

transmitting said position information (see col. 6, lines 6-9; col. 9, lines 10-17; Fig. 4); means (80) for receiving said position information at a base station (76) and providing a received position signal in response thereto (see col. 6, lines 12-18; col. 7, line 65 - col. 8, line 6; col. 9, lines 10-17,20-25; col. 13, lines 15-23; col. 13, line 61 - col. 14, line 8; Figs. 4, 7, 10A, 11A); and

directing a beam from said base station (76) to said mobile transceiver (74) in response to said received position signal (see col. 6, lines 12-18; col. 7, line 65 - col. 8, line 6; col. 9, lines 10-17,20-25; col. 13, lines 15-23; col. 13, line 61 - col. 14, line 8; Figs. 4, 7, 10A, 11A).

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Conclusion

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Willie J. Daniel, Jr. whose telephone number is (703) 305-

8636. The examiner can normally be reached on 7:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Marsha D. Banks-Harold can be reached on (703) 305-4379. The fax phone

number for the organization where this application or proceeding is assigned is 703-872-

9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status information

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about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access

to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197

(toll-free).

WJD,JR/wjd,jr

02 August 2004

LESTEH G. KINC

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PRIMARY EXP.